

	Organization Name: አዲስ አበባ ሳይንስና ቴክኖሎጂ ዩኒቨርሲቲ ADDIS ABABA SCIENCE AND TECHNOLOGY UNIVERSITY		Document No.: VPAA/DPT/OF/022	
	Title: UG PROJECT TITLE SUBMISSION AND ADVISOR ASSIGNMENT FORM		Issue No.: 1	Page No.: Page 1 of 3

1. GENERAL INFORMATION

Project Course: IETP ☐ FYP-I ☒ FYP-II ☐
 Academic Year: 2023/24 Sem.: II Class Year: 5th
 College: Engineering Department: Electro-mechanical

2. STUDENT INFORMATION

No.	Name of Student(s)	Sex	Student's ID	Email	Phone Number
1	Nahom Elias	M	ETS0501/12		
2	Natnael Kassa	M	ETS0532/12		
3	Yared Kenenisa	M	ETS0666/12		
4	Yohannes Geremew	M	ETS0691/12		
5	Yohannes Bayu	M	ETS0698/12		

3. SELECTED THEMATIC AREA

4. PROPOSED PROJECT TITLES

(Please use separate papers and attach if the space provided is not enough.)

Title – 1:

String Art Machine

Short Description of Title - 1:

The "String Art Machine" is an innovative project that combines principles of electromechanical engineering with artistic expression. This machine automates the creation of intricate string art designs by precisely controlling the movement of a set of motors and

	Organization Name: አዲስ አበባ ሳይንስና ቴክኖሎጂ ዩኒቨርሲቲ ADDIS ABABA SCIENCE AND TECHNOLOGY UNIVERSITY	Document No.: VPAA/DPT/OF/022	
Title: UG PROJECT TITLE SUBMISSION AND ADVISOR ASSIGNMENT FORM	Issue No.: 1	Page No.: Page 2 of 3	

pulleys. Utilizing programming and mechanical design, the project explores the integration of technology in art, allowing users to generate complex patterns with ease. This endeavor not only showcases engineering skills but also emphasizes creativity, making it an engaging and visually appealing project for a BSc in Electromechanical Engineering.

Title – 2:

Design and Implementation of a Dancing Fountain

Short Description of Title - 2:

This project explores the integration of electromechanical systems to create an innovative dancing fountain. It involves designing a fountain that synchronizes water jets with music and lighting effects, utilizing microcontrollers and sensors for precise control. The project encompasses the selection of pumps, nozzles, and LED lighting, alongside the development of software algorithms to achieve choreographed performances. The outcome aims to enhance aesthetic appeal in public spaces while demonstrating practical applications of electromechanical engineering principles.

Title – 3:

UV Printer Machine

Short Description of Title - 3:

This project focuses on the design and development of a UV printer machine that utilizes ultraviolet light to cure ink as it is printed. The objective is to create a compact, efficient, and user-friendly printer capable of producing high-quality prints on various materials, including plastics, metals, and textiles. The project encompasses the integration of electromechanical components, such as stepper motors for precise movement, UV LED technology for rapid curing, and a microcontroller for automation and control. Through this project, students will apply principles of electromechanical engineering to enhance print speed, resolution, and durability, while also addressing challenges in energy efficiency and material compatibility.

	<p>Organization Name:</p> <p style="text-align: center;">አዲስ አበባ ሳይንስና ቴክኖሎጂ ዩኒቨርሲቲ</p> <p style="text-align: center;">ADDIS ABABA SCIENCE AND TECHNOLOGY UNIVERSITY</p>	<p>Document No.:</p> <p style="text-align: center;">VPAA/DPT/OF/022</p>	
<p>Title: UG PROJECT TITLE SUBMISSION AND ADVISOR ASSIGNMENT FORM</p>		<p>Issue No.</p> <p style="text-align: center;">1</p>	<p>Page No.:</p> <p style="text-align: center;">Page 3 of 3</p>

(For Department Use Only)

5. APPROVED PROJECT TITLE

6. ASSIGNED ADVISOR

7. APPROVAL:

UG/Stream Coordinator: _____ Signature: _____ Date: _____